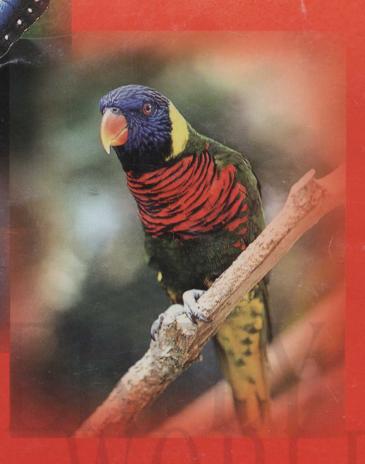
BUTTERFIX



Official Guide



THE WORLD'S LARGEST BUTTERFLY PARK!

Welcome to B AND LORIKEETS!

INTRODUCTION

Butterfly World is the first park of its kind in the Western Hemisphere and the largest butterfly park in the World. Many years of research, combined with careful planning and control have created the right conditions for thousands of butterflies to fly, court, feed and bask in the sunlight, as you walk among them, and enter their world! Because most of these butterflies are bred at Butterfly World you will also be able to witness their entire life cycle and marvel at unusual caterpillars and pupae.

Plants are essential for the survival of butterflies. Our expert horticultural department propagates thousands of specialized plants to feed caterpillars and countless flowering specimens to provide nectar for adult butterflies. This guide has been designed to help you enjoy your visit, and learn more about the exciting things that are happening at Butterfly World. To enhance your enjoyment and educational experience, we invite you to check the boxes next to the butterflies, birds and plants you encounter while you are exploring the grounds. Have a wonderful time!

SOME FACTS ABOUT BUTTERFLY WORLD

How long does a butterfly live?

The average life span of a butterfly in the aviary is about fourteen days. This compares to about seven days in the wild. However, some species like the Zebra can live for up to ten months, and species which vary their nectar diet to include such things as rotting fruit, pollen, dung and even carrion, can live even longer.

How many butterflies are in the aviary?

We try to keep a minimum of 3000 butterflies on display. However, there are often far more. Because we are located in South Florida, this number remains unaffected by seasonal changes.

How many species are there to see?

At any time, up to fifty species can be seen, and over 150 different species over the course of one year.

What are the differences between a butterfly and a moth?

Butterflies and moths are very similar. However, basic differences exist. These are:

- Butterflies generally rest with their wings folded, above the body, perpendicular to the ground. Moths usually rest with their wings folded along their body.
- Most butterflies have antennae which are clubbed at the end, whereas the antennae of a moth are pointed or feathered.

- Butterflies are solar-powered day flying creatures. Although some moths are also daytime flyers, the majority fly at night.
- Butterfly caterpillars are extremely fussy about which plant they feed on. Moth caterpillars will generally eat a variety of plants.

Pupa, Chrysalis or Cocoon?

The words pupa and chrysalis have the same meaning; "pupa" has its origins in Latin while "chrysalis" is a Greek word. A cocoon is the silk casing a silk moth caterpillar spins before it turns into a pupa or chrysalis.

What do butterflies do in the winter?

Most of the butterflies at Butterfly World are tropical species, and in our nearly tropical environment, never have to cope with winter. Non-tropical butterflies have to spend several months of the year in "hibernation" at different stages of their life cycle depending on their species.

The Story of gardens, the butterfly farm and research facility that make up the attraction.

Ronald Boender

Butterfly World t could be said that Butterfly World is the result of one man's hobby gone wild. In fact, that is exactly the way Ronald Boender, founder and managing partner, describes it daily as he presides over the three acres of aviaries and botanical

Born of Dutch immigrants, he grew up in Illinois and has always had a fascination with butterflies, beginning with the cabbage whites, black swallowtails and silk moths he found while growing up on his father's farm.

Boender moved to Florida in 1968, and after completing a successful career as an electrical engineer, decided to actively pursue his interest in butterflies. He began by raising local butterflies and butterfly food plants in small numbers at his home, carefully

observing and recording data on the many behaviors of each species.

Finding that there was a real need for farmed butterflies for sale to universities and zoos, Boender established MetaScience Co. in 1984. Having only a laboratory and a single aviary, the staff at MetaScience produced up to 1000 pupa per week, and established methods of butterfly rearing that are still in use at Butterfly World.

During this time, Boender also learned of attractions called "butterfly houses" springing up across the world, particularly in the United Kingdom.

In 1985, he traveled to England to investigate this phenomenon and its possibilities. Upon meeting Clive Farrell, originator of the "butterfly house" concept, and founder and owner of the London Butterfly House, Boender already knew what his goal would be. He would build a butterfly house in America.

Boender and Farrell entered into a partnership and began working on plans for the first butterfly house in the United States, however the design was a challenge because the park would have to incorporate many features. It would be a public attraction first and foremost, but it was Boender's hope that it would also be a center for research and education, and that it would include the living butterfly farm he had worked years to perfect.

Having met these original goals, Boender's dream was finally realized on March 28, 1988, when Butterfly World opened its doors for the first time.



Clive Farrell

In the years that have followed, the park has expanded to include the country's largest free-flight hummingbird aviary, a lorikeet encounter, and along with them, a skilled aviculture care and research staff to support these endeavors.

The Passiflora Society International has been established to support further research and the sharing of information amongst those, worldwide, who share Boender's love of these plants, the food source for many butterflies. A North American "Bring Back the Butterflies" campaign has also been successfully implemented at Butterfly World, resulting in thousands of enthusiasts across the continent receiving free butterfly gardening information for their home region.

Boender has also been vigilant in his support of off-site research, using Butterfly World profits and expertise to create the Boender Endangered Species Laboratory at the University of Florida. Working in conjunction with scientists there, Butterfly World has been instrumental in saving the endangered Schaus Swallowtail, a species of butterfly that is becoming reestablished in South Florida, and that may even be taken off the endangered species list in the near future.

The story of Butterfly World is the story of a dream realized, and how one man's dream, when pursued, can effect his community and even the world, in a wonderful way. We invite you to dream, and to enjoy your visit to Butterfly World.

Butterfly Identification Guide

The following pages will help you identify some of the butterflies in the main flight areas. How many of these can you find?





Morpho peleides The Blue Morpho



Great Orange Tip



Dryadula phaetusa The Dryadula



Owl



Anartia amathea The Coolie



Butterfly Identification Guide



Parthenos sylvia Clipper



Cethosia biblis The Lacewing





Mechanitis polymnia Mechanitis





Euploea mulciber Stripe Blue Crow





Precis atlites Grey Pansy







Vindula erota The Cruiser





Anartia fatima The Fatima





Danaus vulgaris Blue Glassy Wing



Peacock Pansy



Papilio palinurus Emerald Swallowtail



Papilio demoleus Lime Butterfly



Common Mime



Papilio memnon Great Morman





Myscelia cyaniris Myscelia





Parthenos sylvia Clipper



Butterfly Identification Guide



Heliconius melpomene
Piano Key



Heliconius melpomene
Piano Key



Heliconius melpomene
Piano Key



Heliconius chlysonymus
Chloysonymus



Heliconius melpomene
Piano Key



Heliconius melpomene
Piano Kev



Heliconius melpomene
Piano Key



Heliconius cydno

Cydno



Heliconius erato Cyrbia



Heliconius cydno Cydno



Heliconius numata Numata



Heliconius sara



Heliconius ethilla Ethilla



Heliconius atthis

Atthis



Heliconius Melpomene

Madiera

Butterfly Identification Guide



Doleschalia bisaltide

Autumn Leaf



bisaltide Parides iphidamas
Leaf Iphidamas



Parides photinus

Cattleheart



Pachliopta aristolochiae
Common Rose



Papilio thoas Thoas



Idea leucc



Anteos clorinde
White Angeled Sulphur



Heliconius melpomene

Rosina



Siproeta stelene.

Malachite



Tithorea harmonia
The Tiger



Heliconius hecale

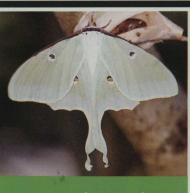
Hecale



Lexias dirtea Archduke

Moths

Shown are some of the unusual moth species also displayed in our aviaries at various times through the year.



Actius luna moth



__ Attacus atlas moth



Composia moth

The Life Cycle of the Butterfly

COURTSHIP AND MATING

Courtship rituals are widely varied amongst butterflies and may include such behaviors as dancing, showering the intended with pheromones, or even spiral flight patterns. When mating occurs, it may take just a few minutes or may last as long as 48 hours.



Mechenitis pairing in the forest

EGG LAYING (OVIPOSITION)

Because caterpillars are very fussy about what they will eat (most will only eat one or two species of plant), the female butterfly must have the skills of an expert botanist in order to find the plants upon which to lay her eggs. Thankfully, she is naturally equipped for this, identifying the correct plant by "smelling" it, using sensors on her feet and antennae. She then deposits her eggs - usually on the underside of a leaf - to protect them from direct sunlight and rain.



Battus polydamas

EGGS

After a few days to a week, the eggs change color - becoming darker. Just before hatching, the head of the caterpillar becomes visible. After chewing a hole in the eggshell and climbing out, the young caterpillar then eats the eggshell, which is full of important nutrients.

CATERPILLARS (LARVAE)

From the very start, caterpillars are eating machines, wasting little time before starting on the leaves of their food plant. They generally eat the new growth when very young, as this contains far less plant toxins than the older growth, which they will eat when they are larger. As they grow, they must shed their skin several times. The new skin

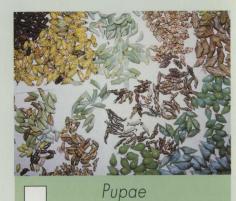


larva

is often a different color and pattern. Each of these changes denotes the beginning of a new "instar". Most species will have 5 or 6 instars before reaching full size. When fully grown, the caterpillar will often wander several yards before finding a place to pupate. It first spins a small silk pad to which it attaches its tail, and from which it suspends itself. Hanging upside down, it sheds its last caterpillar skin and becomes a pupa.

PUPAE

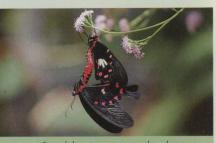
The pupal stage is the most vulnerable point in the life cycle. Hence, most pupae are well camouflaged. Inside, amazing physiological changes take place as the lowly caterpillar is transformed into a beautiful butterfly.



Pupae come in all shapes, colors and sizes. Shown above are unusual pupae from many different countries.

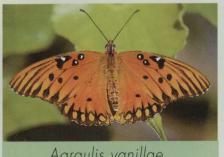
ADULTS

During emergence, the pupa case bursts and the adult butterfly quickly crawls out. At first, the wings are very wrinkled and tiny, but within just a few minutes they inflate as the butterfly vigorously pumps blood through the veins. An enzyme is then released which causes the fluid in the wings to harden. After about 30 minutes, the butterfly is ready to take its first flight, and the miracle of metamorphosis is complete.



Pachliopta aristolochiae Common Rose

Butterfly Gardening



Agraulis vanillae Gulf Fritilary Food Plant: Passionvine



Danaus plexippus Monarch Food Plant: Milkweed



Heliconius charithonia Zebra Food Plant: Passionvine suberosa or "Incense"

benefits both for the gardener and the environment. It is also very easy. If the right plants are planted, the butterflies will find the garden. What could be better?

Pictured are native butterflies of the South Florida region. These butterflies can be seen flying throughout Butterfly World's Grace Gardens and can be easily attracted to your garden as well.

Danaus gilippus Queen Food Plant: Milkweed

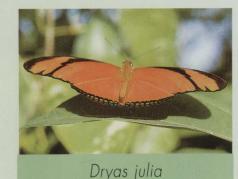
utterfly Gardening is fast becoming a can make for a breathtakingly beautiful and diverse nationwide, if not worldwide trend. It is a fun, habitat garden. Attracted to these plants by smell, educational activity that can have wonderful female butterflies will be able to locate your home,

> male butterflies will be able to locate female butterflies in a similar fashion, and before you know it the miracle of metamorphosis and the wonder of butterflies will exist in your own backyard.

> Because butterfly and plant species differ greatly by region, Butterfly World has established a North American "Bring Back the Butterflies Campaign", providing

The best way to get started is to plant the caterpillar free printed plant guides for each geographic region food plants upon which adult butterflies lay their within the continent. Although Butterfly World stocks eggs. Caterpillar food plants run the gamut from all of the plants for the South Florida region, a local

vines to trees and shrubs, and when planted together County Agricultural agent should be able to tell you



Food Plant: Passionvine suberosa or holosericea



Papilio cresphonte Giant Swallowtail Food Plant: Citrus or Wild Lime



Battus polvdamas Gold Rim Swallowtail Food Plant: Dutchman's Pipe

Butterfly Gardening



Phoebis philea
Orange-Barred Sulpher
Food Plant: Cassias



Anartia jatrophea
White Peacock
Food Plant: Bacopa



Phoebis sennae Cloudless Sulphur Food Plant: Cassias

Remember, caterpillar food plants are the key!

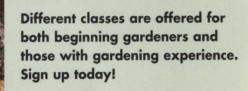
where to find the correct plants in other areas.

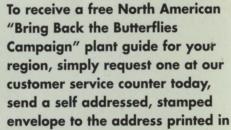
Once the caterpillar food plants have been selected, blossoming nectar plants can be added to make a butterfly garden more beautiful and should be included for adult butterfly feeding.

However, it is the caterpillar food plants that are truly the key to a thriving butterfly garden. Again, once these are in place, it is a good idea to add some beautiful blossoming plants that provide good nectar food, such as Zinnias,

For those who would like more information and instruction, Butterfly World offers monthly

classes on Butterfly Gardening.





this book, or log on to ButterflyWorld.com and "Join the Campaign."



Marpesia petreus Ruddy Daggerwing Food Plant: Ficus



Buddlea, Salvia, Pentas and Porterweed.

Leptotes cassius Cassius Blue Food Plant: Plumbago



Eumaeus atala Atala Food Plant: Coontie



Danaus eresimus Soldier Food Plant: White Vine

Butterfly Gardening



Buddleia davidii Butterfly Bush



Tithonia

Mexican Sunflower



Odontonema Strictum Firespike



Cuphea melvilla
Candy Corn



Calliandra aematocephala Powder Puff



Clerodendrun paniculatum Pagoda Flower



Stachytarpheta species Porterweeds



Psiguria tabacensis



Cnidoscolus aconitifolius White Coral Plant



Heliotropiun 'alba'



Jatrophe gossypiifolia



Hamelia patens



Jatrophe integerrima





Pseudogynoxys chenopodioides

Mexican Flame Vine



Clerodendrum speciosissimum
Java Glory Bower



Russelia sarmentosa



Pentas lanceolata

The Miracle of the **Monarch Migration**

I nown as the "wanderer", the Monarch butterfly (Danaus plexippus) earns its name by flying the span of North America during its incredible fall migration. For unknown reasons, millions of Monarchs flock to the same southwestern locations year after year, where the mild climate, forests and mountains offer refuge.

Although most Monarchs have a lifespan of about 6 weeks, the fifth or "winter generation" has a unique longevity, surviving for up to six months on the body fats they are able to store. The Monarchs remain in Mexico until March 21st, when they begin the return migration. They court and mate during the travel home, and produce offspring. In fact, most of the butterflies completing the flight back to the Northern climates are actually the progeny of the parents that left Mexico.



Each year in the fall, the Monarch butterflies across the entire eastern half of North America migrate to their overwintering colonies in the mountains of Michoacan, Mexico. Here, they accumulate in incredible numbers (sometimes hundreds of millions in ten to fifteen acres of forest), hanging dormant on the fir trees except for an hour or two of flight at mid-day from November to March.



Denselv packed on every available square inch of fir bough, the Monarchs occasionally break the tree branches from their massed weight, causing them to crash to the forest floor.

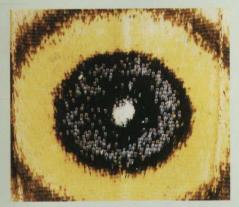


Monarchs that fall to the forest floor attempt to climb the nearest regetation or other object, spreading their wings in the morning sunlight to warm up sufficiently for walking or flying.

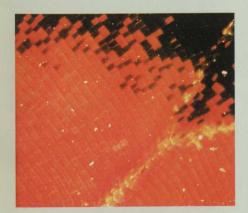
Where Do the Colors In Butterfly Wings Come From?



Morpho patrochlus



Taenaris artemis



Callicore astarte staudingeri



Morpho hebuca obidonus



The color patterns of butterfly wings

are made up of thousands of tiny

overlapping scales. Colors are

produced in two ways, through

Scales with chemical pigments

and transmit what is left, giving

most butterflies their beautiful

of the scale itself.

color patterns.

chemical pigment within each scale,

or through light hitting the surface

absorb certain wavelengths of light

The most brilliant colors however, are produced by scales shaped to allow

light to bounce off minute films and

ridges in the scale surface. This type

of scale can produce a breathtaking

flash of color or an iridescent effect

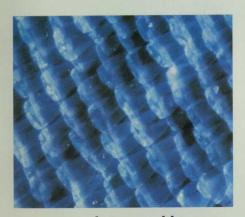
as the butterfly spreads its wings to fly.

One thing is for sure, magnified under

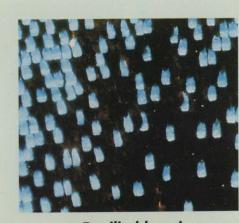
the power of a good light microscope, each wing is truly a work of art!



Graphium weiskei



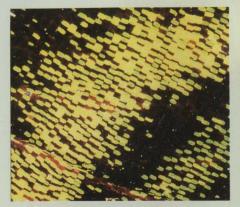
Morpho patrochlus



Papilio blumei



Delias sagessa



Teinopalpus imperialis

The Birds of **Butterfly World**

The Lorikeets and Lories of the "Lorikeet Encounter"

Lories and Lorikeets are the breathtakingly beautiful clowns of the parrot world. They are also called the "brush-tongued" parrots, for their long brush-like tongues allows them to easily feed on pollen and nectar, a physical feature that sets them apart from other species.

Extremely intelligent and precocious, they learn at an amazing rate, and seem to add to their repertoire of tricks and mischiefmaking on a daily basis. They are also very friendly and enjoy interacting with humans.

Found in the Australasian region, and in particular, the country of New Guinea, the greatest numbers of Lories and Lorikeets can be seen on Henderson Island and the Pitcairn Ducie Islands, where they were originally discovered.

In the wild, they feed upon the nectar of flower covered trees, as well as fruit, some seeds that have not yet ripened, insects, and larvae. They are arboreal birds, feeding, sleeping, breeding and even making their nests in the hollows of tall trees.



The Lorikeets

Hummingbirds and more within the "Jewels of the Sky™ Aviary"

The smallest birds in the world, Hummingbirds may also be the most fascinating. With wings beating 60 times a second, they possess the unique ability to hover, as well as fly in any direction, reaching an average speed of 45 miles per hour in the air. In proportion to their overall size, they have both the largest brain and heart of any animal, and an amazing heart rate of between 500 and 1200 beats per minute.

Found only in North, Central, and South America, there are 330 known species of Hummingbirds, 24 of which have been verified within the U.S. In fact, it is estimated that every square yard of ground within the United States is inspected by at least one hummingbird annually. These busy birds visit 2000 to 5000 flowers per day, sipping nectar for energy, as well as feeding on tiny insects for muscle and feather building protein. They are also very territorial, and seem to relish a fight with any bird bold enough to partake of the food sources they have claimed as their own.





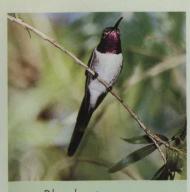
Cvanthus latirostris Broadbill hummingbird (male)



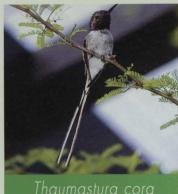
roadbill hummingbird



Cvanthus latirostris Broadbill hummingbird on eggs



Rhodopis vesper Oasis hummingbird (male)



Peruvian sheartail



Colibri coruscans Sparkling violet ear humminabird (male)



Sparkling violet ear feeding babies

Other Showstoppers . . .

Other show stoppers within the Jewels of the Sky Aviary include Gouldian Finches, brilliantly colored Honeycreepers and Euphonias.

Although native to Australia, Gouldian Finches have been raised in this country since 1954. They are rainbow colored wonders with feather patterns that appear to be "painted" on to them. They are also seed feeders, often seen sharing a meal with other members of their family.

Unlike these, Honeycreepers relish nectar, and use their long curved beaks to pierce the backs of flowers to obtain it. Although they are members of the Tanager family, they are often mistaken for Hummingbirds, due to this aspect of their anatomy.

A Euphonia is a different sight altogether, with navy blue feathers covering its back and tail, in sharp contrast to its mustard yellow breast. These birds love to sing, and have the endearing distinction of remaining in family groups long after the young have left the nest. Families can often be seen flying throughout the aviaries with both father and mother sharing feeding duties until their young reach adulthood



Costa hummingbird



Violaceous euphonia Violet euphonia (male)



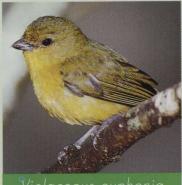
Yellow legged honeycreeper (male)



Cyanarpes cyanaus Red legged honeycreeper (male)



Chloebia gouldiae Gouldian Finch





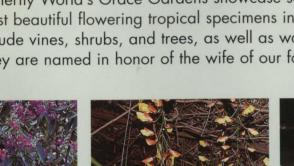
Cyanarpes caeruleus Yellow legged honeycreeper



Grace Gardens

Flowering Tropical **Botanical Gardens**

Butterfly World's Grace Gardens showcase some of the most beautiful flowering tropical specimens in the world. They include vines, shrubs, and trees, as well as water gardens. They are named in honor of the wife of our founder.



Tobouchina granulosa Purple Spray





Nepenthe Water Liles



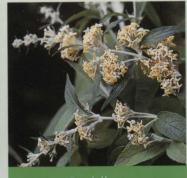




Angel's Trumpet



Cassia alata Candle Bush





Mussaenda sp. Tropic Snow



Erythrina variegata Sunshine Tree



St. John's Creeper

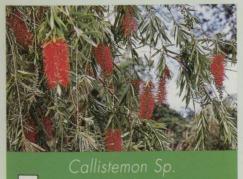


Bauhinia galpinii



Brunfelsia pauciflora Yesterday, Today & Tomorrow







Cassia afrofistula



thomsoniae

delectum



Pontederia cordata Pikeral Weeds

arborea



Antigonon leptopus Coral Vine

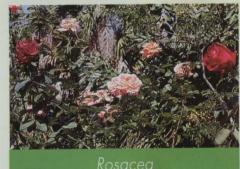


Tecoma stans Yellow Bells



Bougainvillea





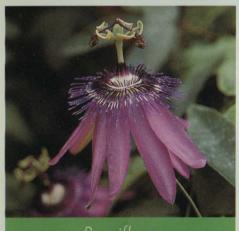


Passifloras

The Lifeline of the Heliconius Butterflies



Passiflora "Atropurpurea"



Passiflora "Lavender Lady"

overed with breathtaking blossoms, the Passiflora serves as the caterpillar food source for some of the world's most beautiful butterflies, including the Melpomene, Sara and Rosina. As a result of this tie between these plants and the butterflies, Butterfly World has amassed one of the largest collections of flowering passion vines in the world.

Butterfly World is also the headquarters for the Passiflora Society International, an organization founded by Ron Boender and dedicated to the preservation of Passifloras

throughout the world, and designed to foster research and the sharing of information amongst all members. Further information and applications for the Passiflora Society International are always available at Butterfly World or by e-mail sent to: gardens@butterflyworld.com.

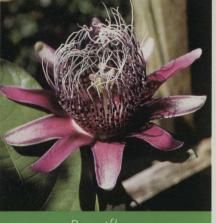
Passiflora

"Lady Margaret"



Passitlor boende





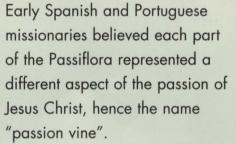
Passiflora trialata



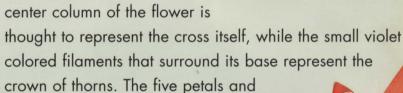


The Legend of the Passiflora....

Early Spanish and Portuguese missionaries believed each part



The stigma are thought to represent the three nails used to nail Christ to the cross. The center column of the flower is



five sepals are thought to represent the 10 disciples present at the crucifixion, and Christ's resurrection on the third day is represented by the three underleaves.



Passitlora holosericea



Passiflora "Marie"



Passiflora"Piresii"

Research and Discovery at Butterfly World

Throughout Butterfly World's history, research into every aspect of the butterfly and its habitat has been ongoing, yielding a myriad of discoveries and facilitating new methods of butterfly farming and protection.

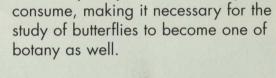
Butterfly Farming

Butterfly World began farming native and exotic species of butterflies in 1983.

Because commercial farming had never been attempted in the United States, trial and error

were common practice. However, methods were fine-tuned quickly enough to allow the successful farming of over 50 species within two years.

The successful farming of all of these butterflies also necessitated the successful propagation of their individual food plants. Voracious eaters, butterfly larva are also very fussy about what they will



The discovery and identification of food plants for several rare butterflies has been the goal and often a triumph for Butterfly World throughout the years.

Although we know much about butterfly species and their basic dietary needs, we are constantly learning about their more complex chemical and environmental requirements.

Some of the specific areas of study in this realm have included the identification of chemicals butterflies emit and consume that are necessary for reproduction, the shade, temperature and humidity requirements of different species, and the study of species' diverse diapause (hibernation) stages.



Boender Endangered Species Laboratory





Pest Control The aviaries within But

The aviaries within Butterfly World provide a desirable habitat for many kinds of wildlife. Consequently, they attract many unwanted pests, the worst of these being those that prey on butterflies and birds. Controlling these pests in creative ways without destroying the healthy environment within the aviaries is, of course, a daily challenge.

Research and Discovery at Butterfly World

Butterfly World enlists the use of structural and biological controls in order to protect the butterflies from their lengthy list of predators, including ants, spiders, snakes, frogs, lizards and wasps.

Because butterflies are also susceptible to bacteria and even viruses, the butterfly breeding areas must be maintained at a high level of cleanliness.



Cuban tree frog hiding in pipe

Endangered Species

Throughout its history, Butterfly World has been actively involved in efforts to learn more about and save America's threatened and endangered species of butterflies. Through the park's North American "Bring Back the Butterflies Campaign" for butterfly gardening, butterfly habitat creation and protection have been advanced across the continent.

On a state level, Butterfly World has enjoyed a partnership with scientists at the University of Florida, supporting and aiding in their investigations of butterfly population losses. Our combined efforts have culminated in the creation of the "Boender Endangered Species Laboratory", named for Butterfly World's Founder, and located on the campus of the University of Florida.

Through an extensive study at the University of Florida, aided by Butterfly World's breeders, it was proven that mosquito control chemicals were the main factor causing the near demise of the endangered Schaus Swallowtail in the Florida Keys.

Over the past several years, Butterfly World and students at the University of Florida, under the direction of Dr. Thomas C. Emmel, have been involved in a cooperative effort to save this butterfly. Each year at the same time, lab reared chrysalises are transported from the University of Florida. The adult butterflies emerge at Butterfly World, and are then introduced back into their original breeding areas in Dade and Monroe Counties.



Schaus Swallowtail

This repopulation has been so successful that there is hope the Schaus Swallowtail will soon be removed from the Endangered Species List.

Museums

The Museum Insectarium at Butterfly World displays a few hundred of the nearly countless insects of the world. We provide this display so that you can get a "close up" view of creatures you would probably never have the opportunity to see in nature. While our museum is fun, and certainly educational, most major natural history museums that include such collections as ours, also house serious research endeavors that are important to mankind.

Why are large museum collections so important?

These collections are first, used for reference. For example, insect collections are integral to pest identification. They are also used for systematics and taxonomy, i.e. putting newly discovered creatures within the right order of family, genus and species, as well as for research within higher education. Mimicry in insects is also so astounding that there are sometimes hundreds that appear identical to the untrained eye. In these cases, examination of specimens in their entirety is crucial. Still others are so small in size that they can only be seen or identified through the use of a microscope.

In collections such as the one at the British Museum of Natural History, many of the specimens were donated centuries ago and may have become extinct by our time, making their preservation all the more important, and their value, priceless.

The Florida State Collection of Arthropods is one of the 10 best arthropod museums in North America. the FSCA contains over 8 million specimens of arthropods (insects, spiders, ticks, mites, and others) and gastropods (snails) collected from all over the world.

The Florida Department of
Agriculture and Consumer Services
is constantly on the alert for exotic
pests that threaten Florida's
agricultural and native plant
resources. With its many reference
specimens, the FSCA is a valuable
tool that assists our taxonomists
in identifying arthropod samples.
The FSCA is used to train our plant
protection specialists and others
to help eradicate and prevent
the spread of pests.

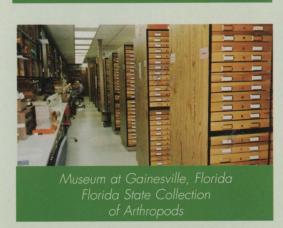
FSCA is open to tours by school classes and individuals. Please feel free to contact us and request information on receiving a tour.

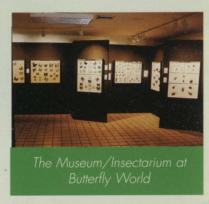
Florida State of Collection of Arthropods

Florida Department of Agriculture &

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email: thomasm@doacs.state.fl.us

Phillip Ackery, entomologist at the famed . British Natural History Museum, showing Ron Boender some of the collection







The Museum/Insectarium a Butterfly World



Butterfly World As An Educational Resource

One of the main goals of Butterfly World is to encourage visitors to take an active interest in their environment and the natural world. Toward this end, we have implemented a number of ways in which people of all ages can use Butterfly World as an educational resource.

FOR CHILDREN:

Field Trip Tours

Butterfly World has created a complete school field trip program for all grade levels including pre-visit activities, reduced field trip rates and a guided tour. Boy Scouts, Girl Scouts and camps are welcome!

FOR ALL AGES:

Guided Group Tours

Guided tours for all ages are available by reservation and parties of 10 or more may be eligible for group rates. For further information regarding field trips, group tours and rates, please call our Group Sales Desk at 954-977-4434.

WORKSHOPS AND SEMINARS

In addition to tours, Butterfly World offers a series of how-to workshops and seminars throughout the year. Highlighted are our Butterfly Gardening classes for beginners and advanced butterfly enthusiasts. If you would like information on future programs, simply call 954-977-4434, write to: Butterfly World, 3600 W. Sample Road, Coconut Creek, FL 33073, or send e-mail to gardens@butterflyworld.com.



SOCIETIES

Butterfly World is proud to be a member of The Lepidopterists' Society, and the Association for Tropical Lepidoptera, both of which are non-profit organizations dedicated to the study and preservation of butterflies and moths. Both amateur and professional butterfly enthusiasts are encouraged to join. Information pamphlets and membership applications can be picked up any time at the Butterfly World Admissions Desk. Information and membership applications for the Passiflora Society International are also readily available at the Admissions Desk. This society, headquartered at Butterfly World, was founded to foster communication and sharing amongst those who share interest in Passiflora, plants that are necessary for the survival of many rainforest butterflies, as well as North American butterflies.

MUSEUM STORE

Finally, the Butterfly World Museum Store is always open to the public and filled with hard-to-find butterfly and nature related books and gifts. Our on-line store is also easily accessible at butterflyworld.com.

Just outside, the Butterfly Gardening Plant Shop carries a wide variety of butterfly attracting plants and vines guaranteed to turn your garden into a paradise for butterflies. Our knowledgeable staff will be happy to help you select the best items for your needs or answer any questions you may have.

Butterfly World Scientific Advisory Board

Dr. Phillip J. DeVries, University of Oregon

Dr. Thomas C. Emmel, University of Florida

Dr. Lawrence E. Gilbert, University of Texas

Dr. Nancy Greig, Cockrell Center, Houston, Texas

Dr. John Heppner, Florida State Collection of Arthropods, FDACS.

Dr. John M. MacDougal, Missouri Botanical Gardens

Dr. Jackie Miller, Allen Museum, Sarasota Florida

Dr. James L. Nation, University of Florida

Dr. Phil Schappert, University of Texas

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